

Informed Consent

Informed Consent Form

PURPOSE OF RESEARCH STUDY:

The purpose of this study is to understand more about people's reactions to robots.

PROCEDURES:

You may read or view information or depictions of a robot, and then you will be asked to answer questions about that robot related to your impression of it.

RISKS/DISCOMFORTS:

There are no risks for participating in this study beyond those associated with normal computer use.

BENEFITS:

Although it may not directly benefit you, this study may benefit society by improving our understanding of how people react to robots.

VOLUNTARY PARTICIPATION AND RIGHT TO WITHDRAW:

Participation in this study is voluntary, and you can stop at any time.

CONFIDENTIALITY:

The only identifying information based on your participation in this study will be your Amazon Mechanical Turk serial number. These serial numbers will not be shared with anyone outside the research team and will only be used by Amazon to handle financial transactions. We will remove these identifiers before doing any analysis or sharing data.

COMPENSATION:

If you satisfactorily complete the study, which should take approximately 30 minutes, you will receive \$3.50 for your participation.

CONTACT INFORMATION:

If you have any questions about this research, you may contact the PI Jonathan Phillips jonathan.s.phillips@dartmouth.edu or the student researcher Hailey Scherer at hailey.a.scherer.20@dartmouth.edu during normal business hours.

If you have questions, concerns, complaints, or suggestions about human research at Dartmouth, you may call the Office of the Committee for the Protection of Human Subjects at

Dartmouth College (603) 646-6482 during normal business hours.

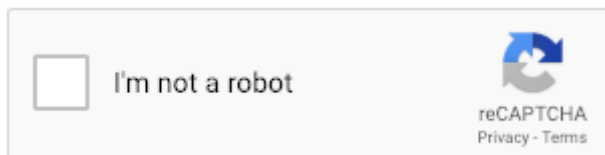
"I CONSENT":

By clicking the "I CONSENT" button below, you indicate that you are 18 years of age or older, that you voluntarily agree to participate in this study, and that you understand the information in this consent form. You have not waived any legal rights you otherwise would have as a participant in a research study.

I consent

Captcha

Please complete the question below.



Demographics

What is your age?



What is your gender?

- Male
- Female
- Other / Prefer not to say

Are you Hispanic?

- Yes
- No

What Race(s) do you identify with?

- Asian / Asian American
- Black / African American
- Native American / Alaskan Native
- Native Hawaiian / Pacific Islander
- White / Caucasian
- Other / Unknown

What is the highest level of school you have completed or the highest degree you have received?

- Less than high school degree
- High school degree or equivalent (e.g. GED)
- Some college but no degree
- Associate degree
- Bachelor's degree
- Master's degree
- Doctorate

Which of the following categories best describes your employment status?

- Employed, working 1-39 hours per week
- Employed, working 40 or more hours per week
- Not employed, looking for work
- Not employed, NOT looking for work
- Retired
- Disabled, not able to work
- Student

Which category captures your total annual household income?

- \$0 to \$9,999
- \$10,000 to \$24,999
- \$25,000 to \$49,999
- \$50,000 to \$74,999

- \$75,000 to \$99,999
- \$100,000 to \$199,999
- \$200,000 or higher
- Prefer not to say

Neutral x None (N4)

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First Click: *0 seconds*

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Today you will be answering questions about a robot.

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Mech x None (M4)

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Today you will be answering questions about a robot.

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Anth x None (A4)

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Today you will be answering questions about a robot.

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

Neutral x Solo (N1)

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Watch the below video carefully. You will be asked later to describe what happens in the video.

Robot Views_1



Open-Ended Video Description

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Click Count: *0 clicks*

Please briefly describe what you saw in the video in your own words.

What happened in the video?



Neutral x Mech (N2)

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Robot Views_2





Neutral x Anth (N3)

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Robot Views_3



Mech x Solo (M1)

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Robot Views_1



Mech x Mech (M2)

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Robot Views_2



Mech x Anth (M3)

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Robot Views_3



Anth x Solo (A1)

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Robot Views_1



Anth x Mech (A2)

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Robot Views_2



Anth x Anth (A3)

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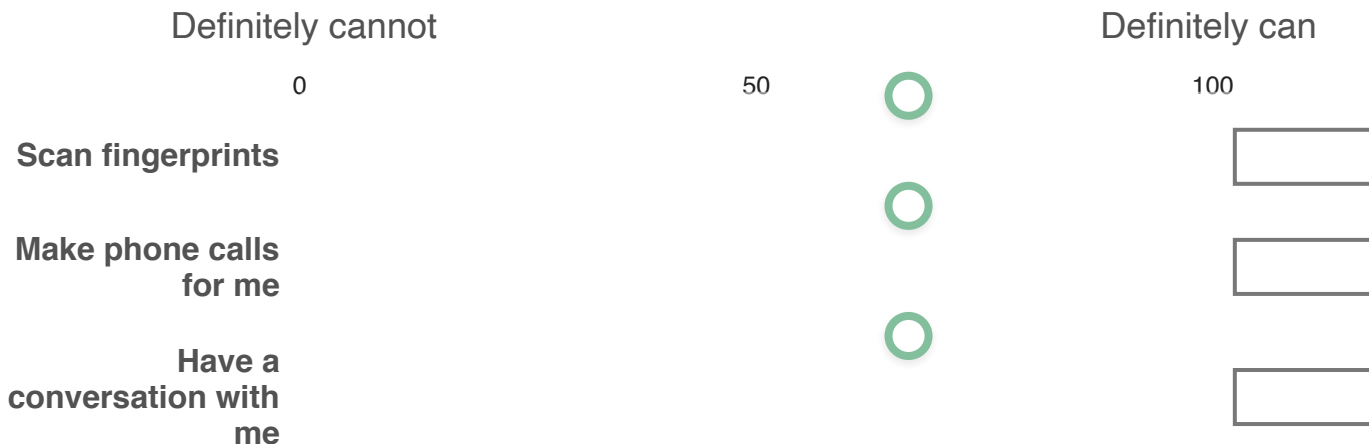
Robot Views_3



Expected Capabilities

Based on what you've seen about this robot, what is the probability (0% to 100%) that the robot will have each of these capabilities? Use the sliding scales below.

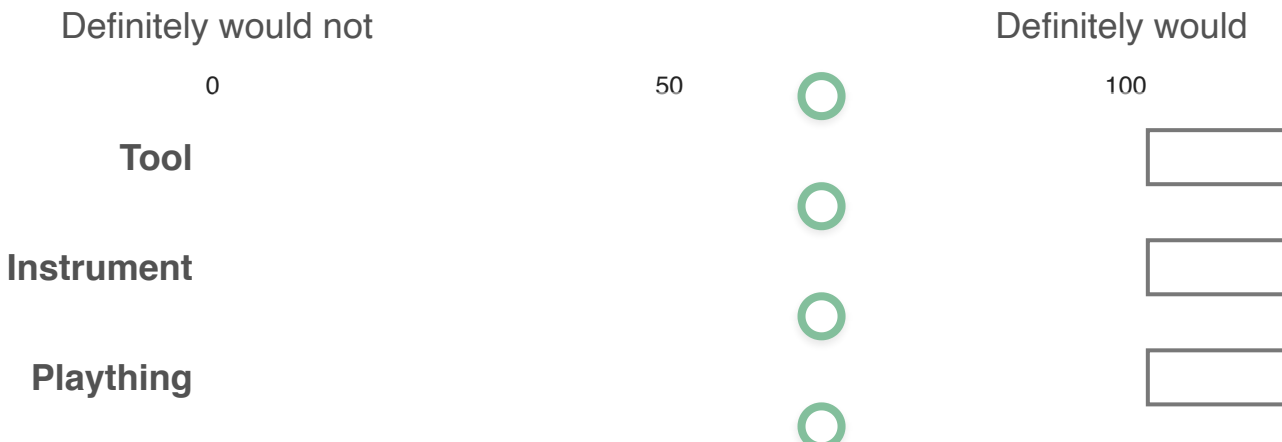
Definitely cannot		Definitely can
0	50	100
Give me advice	<input type="radio"/>	<input type="text"/>
Access my music library for me	<input type="radio"/>	<input type="text"/>
Joke around with me	<input type="radio"/>	<input type="text"/>
Make measurements for me	<input type="radio"/>	<input type="text"/>
Scan things using thermal sensing	<input type="radio"/>	<input type="text"/>
Share experiences with me	<input type="radio"/>	<input type="text"/>
Have fun with me	<input type="radio"/>	<input type="text"/>
Record sounds	<input type="radio"/>	<input type="text"/>
Take pictures for me	<input type="radio"/>	<input type="text"/>
Scan things using X-ray vision	<input type="radio"/>	<input type="text"/>
Understand my emotions	<input type="radio"/>	<input type="text"/>
Comfort me	<input type="radio"/>	<input type="text"/>
Convey emotions	<input type="radio"/>	<input type="text"/>



Anthropomorphic attributions

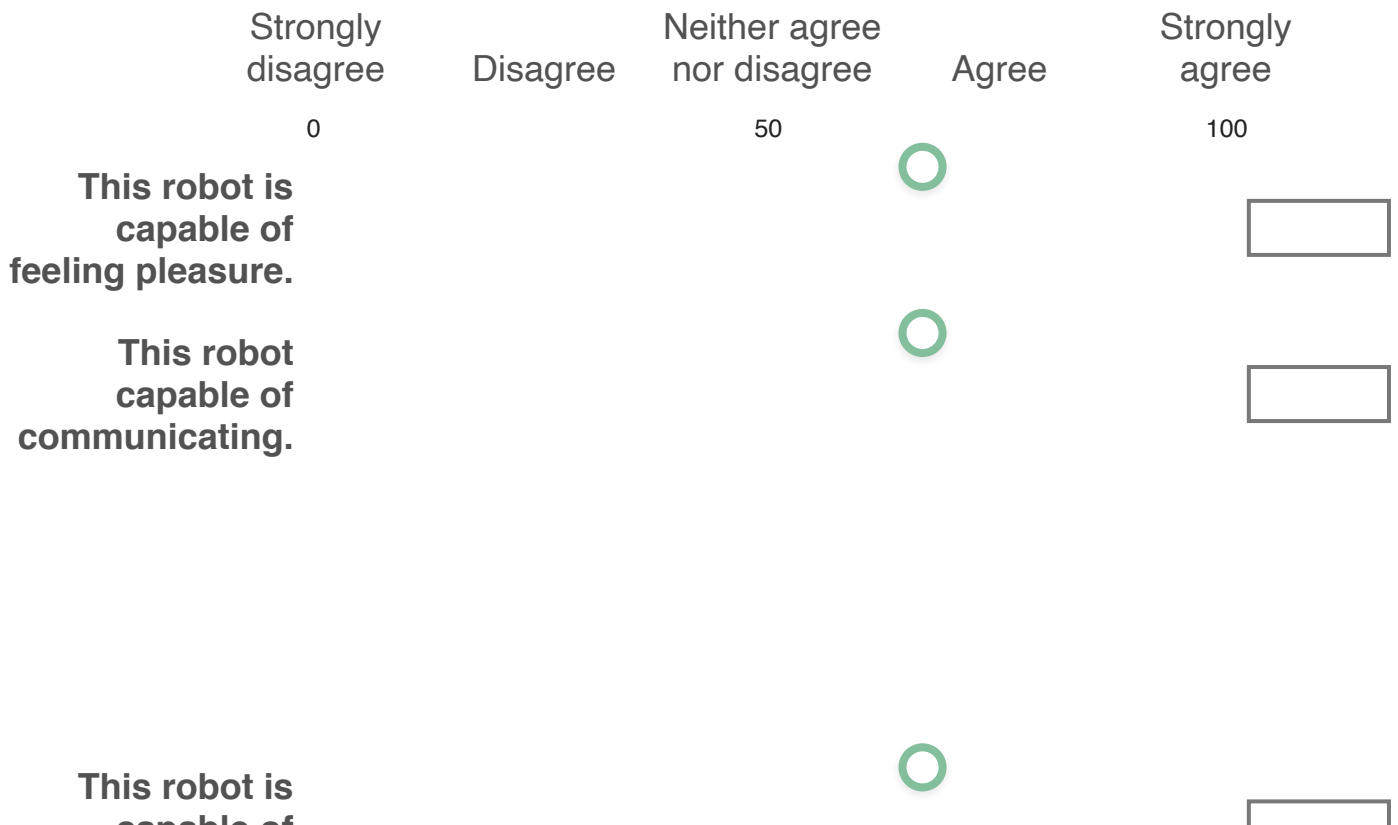
Based on what you saw of the robot, please slide the dot to the point on each scale that most closely matches your impression of the robot.

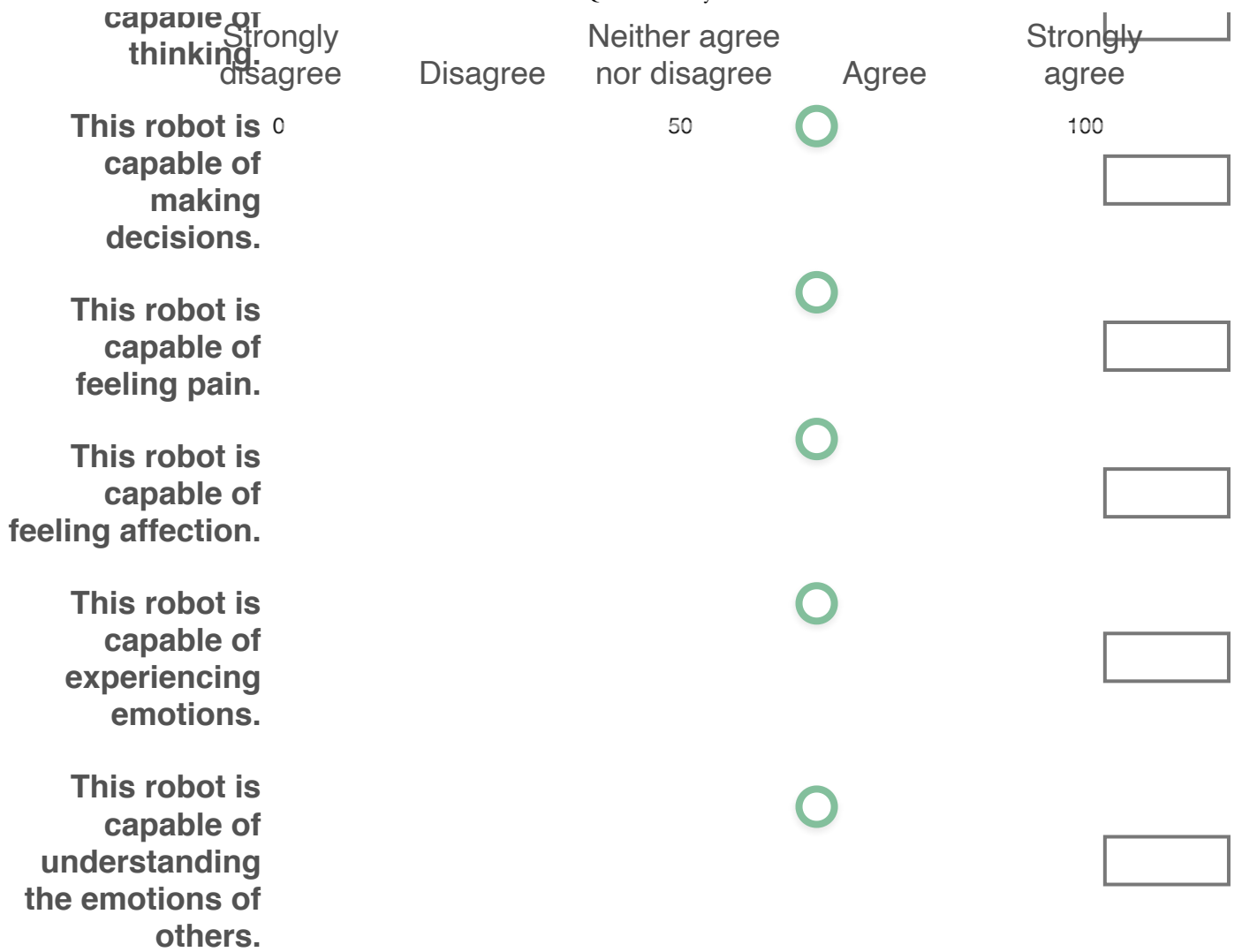
What is the probability (0% to 100%) that you would use this term to describe the robot?





Based on your impression of the robot, please indicate the degree to which you agree with each statement.





Based on what you saw of the robot, please slide the dot to the point on each scale that most closely matches your impression of the robot.

Machinelike

Humanlike

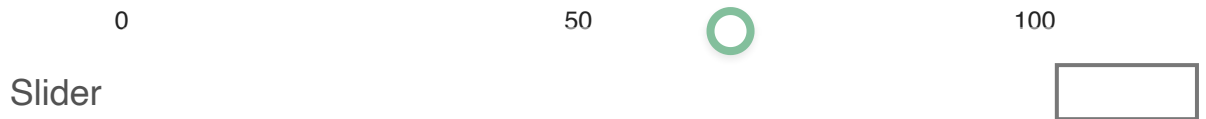
1 2 3 4 5 6 7

Machinelike

Humanlike

1 2 3 4 5 6 7

Please put the below slider at "20".



Nonconscious

Conscious

1 2 3 4 5 6 7



Mechanical

Lively

Mechanical

1 2 3 4 5 6

Lively

7

Inert

1 2 3 4 5 6

Interactive

7

Unresponsive

1 2 3 4 5 6

Responsive

7

Dislikable

1 2 3 4 5 6

Likable

7

Unhelpful

1

2

3

4

5

6

7

Helpful**Unpleasant**

1

2

3

4

5

6

7

Pleasant

Scenarios N1

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

Stop the person from boarding

100

50



Allow the person to board

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer at a shopping mall. This robot is with you. This robot has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

100

50



Do not call for everyone to take cover

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

100

50



Do not enter the warehouse

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Please put the below slider dot at "60".

100

50



0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

100

50



Find another way to diagnose the player's injury

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

50



0

Let the eggs cook longer



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

**Go to your spouse and ask
why they are upset**

100

50



Continue reading

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in your office during an investigation about a recent minor incident that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

**Continue your investigation
of that employee**

100

50



Move on to the next employ

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional software installed to aid you in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

Stop the person from boarding

100

50



Allow the person to board

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

Pay special attention to your significant other's interactions

100

50



0

Do not pay special attention to your significant other's interactions



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a college football coach. The robot is on the bench next to you, and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

50



Do not stop the drill

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have minor injuries and are very uncomfortable. To relieve them from their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

50



Do not move the debris

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you aiding your job. You have had the robot for several years. Someone was loading a large part of a tree into the grinder when suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to activate the metal failsafe mechanism. You also know that if you do this, this robot will crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the

human will be injured, and nothing will happen to the robot.

What do you do?

**Throw the robot into the
grinder**

100

50



**Do not throw the robot into
the grinder**

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway.

However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the scaffolding, and there is no danger of either of you falling. Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see

only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?

Push the pile of shingles

100

50



Do not push the pile of shingles

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there.

You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50



Do not ask them to go bac

0

Scenarios M1

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What do you do?

**Stop the person from
boarding**

100

50



0

Allow the person to board

**Stop the person from
boarding**

100

Allow the person to board

50

0



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What do you do?

**Call for everyone to take
cover**

**Do not call for everyone to
take cover**

Call for everyone to take cover

100

100

50

50



Do not call for everyone to take cover

0

0



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

100

50



Do not enter the warehouse

0



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Please put the below slider dot at "60".

100

50



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What do you do?

Suspend the player's participation in the game and begin medical treatment

100

Find another way to diagnose the player's injury

50

0



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are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

50



Let the eggs cook longer

0



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You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The

robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

Go to your spouse and ask why they are upset

100

50



Continue reading

0



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You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in

your office during an investigation about a recent minor incident that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

Continue your investigation
of that employee

100

50



Move on to the next employ

0



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You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional software installed to aid you in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

Stop the person from
boarding

100

50



Allow the person to board

0



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You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

Pay special attention to your significant other's interactions

100

50



Do not pay special attention to your significant other's interactions

0



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navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a college football coach. The robot is on the bench next to you, and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

50



Do not stop the drill

0



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navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have minor injuries and are very uncomfortable. To relieve them from their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

50

Do not move the debris

0





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You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you aiding your job. You have had the robot for several years. Someone was loading a large part of a tree into the grinder when suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to

activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

**Throw the robot into the
grinder**

100

50

**Do not throw the robot into
the grinder**

0





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You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0



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You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the scaffolding, and there is no danger of either of you falling. Suddenly, there are large vibrations in the scaffolding. You and

your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?

Push the pile of shingles

100

50



Do not push the pile of shingles

0



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Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the

crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50



Do not ask them to go bac

0

Scenarios M2

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.



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You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50



Allow the person to board

0



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You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

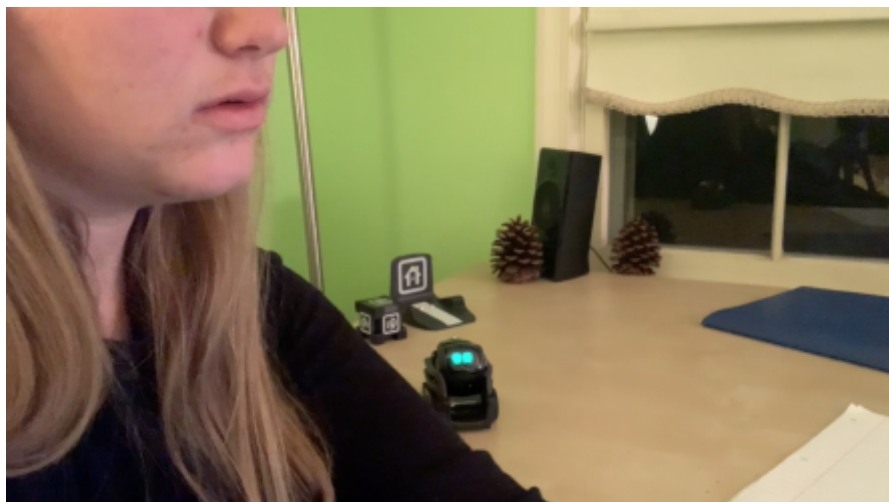
100

50



Do not call for everyone to take cover

0



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What do you do?

Enter the warehouse

Do not enter the warehouse

100

50

0



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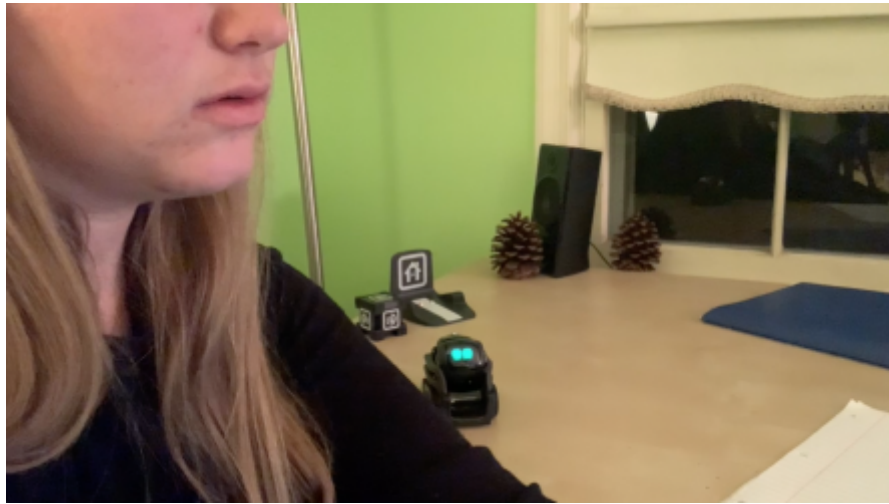
Please put the below slider dot at "60".

100

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What do you do?

Suspend the player's participation in the game and begin medical treatment

Find another way to diagnose the player's injury

Suspend the player's participation in the game and begin medical treatment

100

50



Find another way to diagnose the player's injury

0

50

0



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What do you do?

Take the eggs out of the water

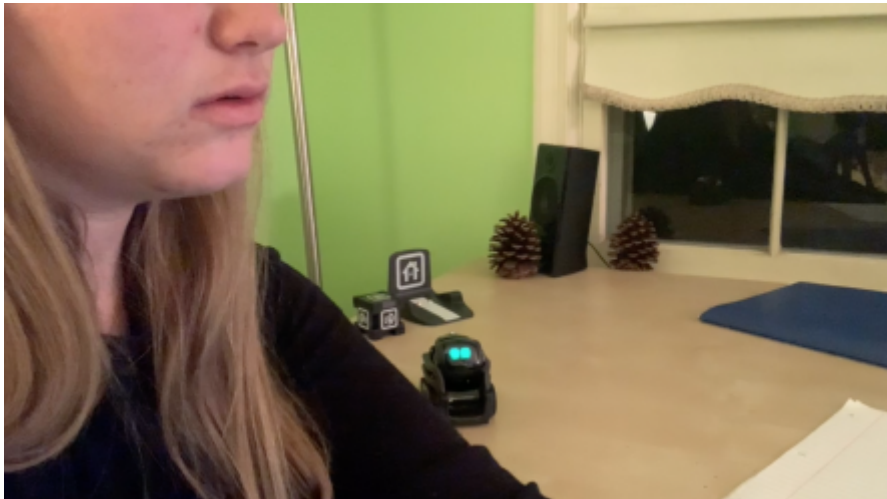
100

50

0



Let the eggs cook longer



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What do you do?

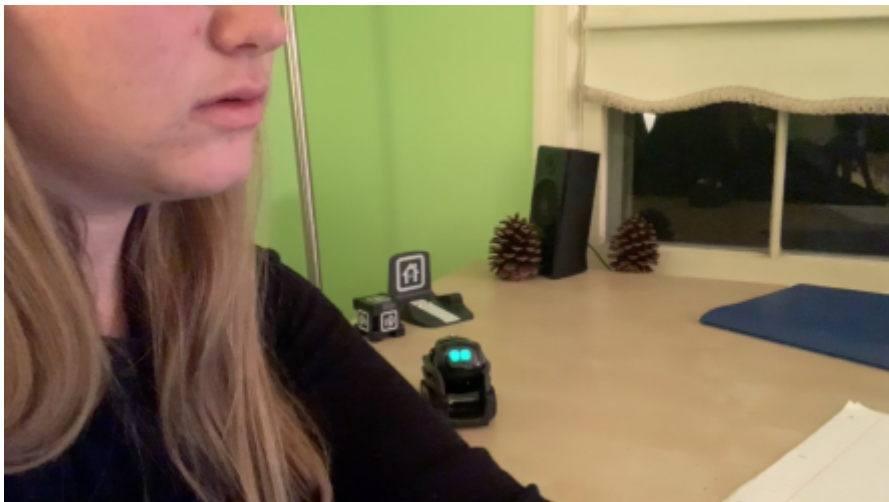
Go to your spouse and ask
why they are upset

100

50

Continue reading

0



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that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

**Continue your investigation
of that employee**

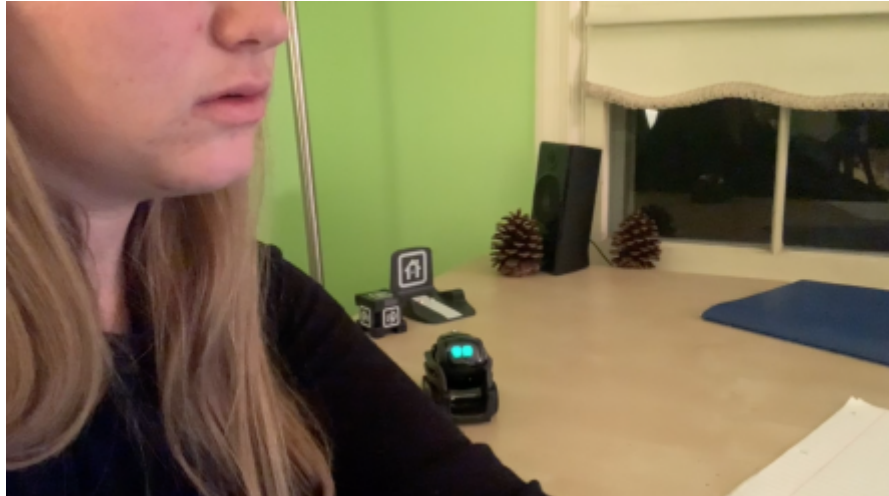
100

50



Move on to the next employ

0



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What do you do?

Stop the person from
boarding

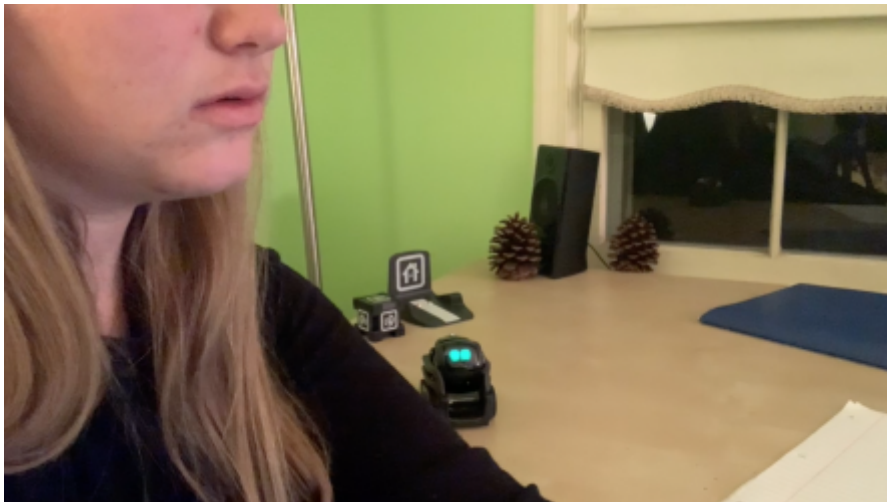
100

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Allow the person to board

0



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You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

Pay special attention to your significant other's interactions

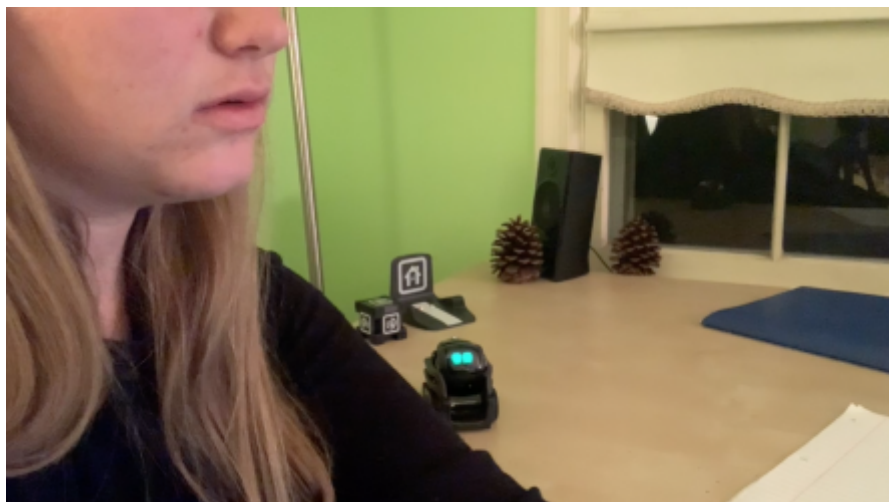
100

50



Do not pay special attention to your significant other's interactions

0



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You are a college football coach. The robot is on the bench next to you, and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

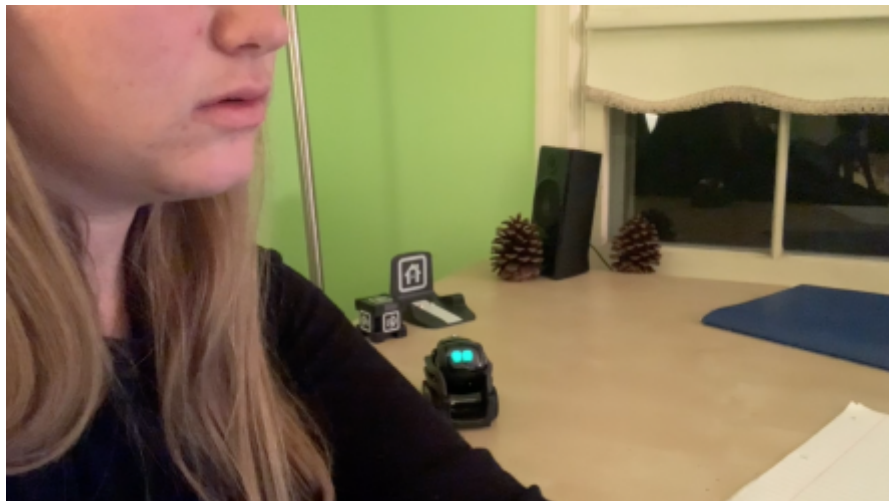
100

50



Do not stop the drill

0



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If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

50

Do not move the debris

0





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You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to

activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

Throw the robot into the grinder

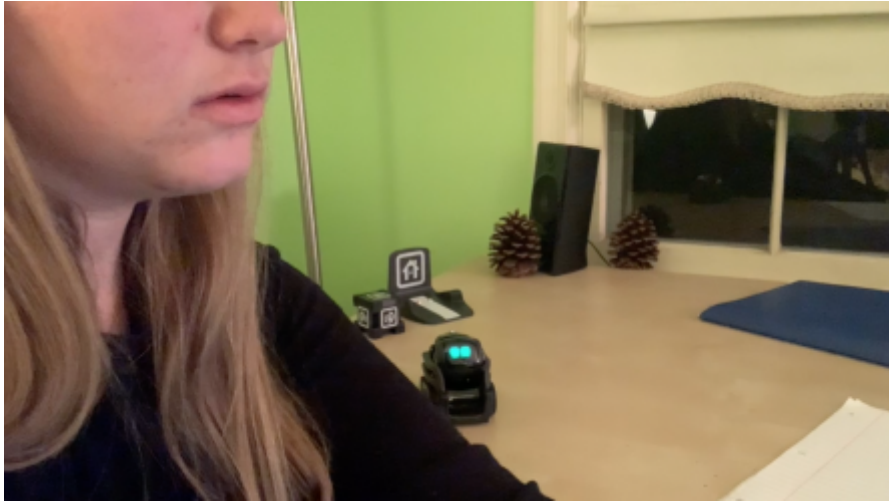
100

50

Do not throw the robot into the grinder

0





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Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0



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shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?

Push the pile of shingles

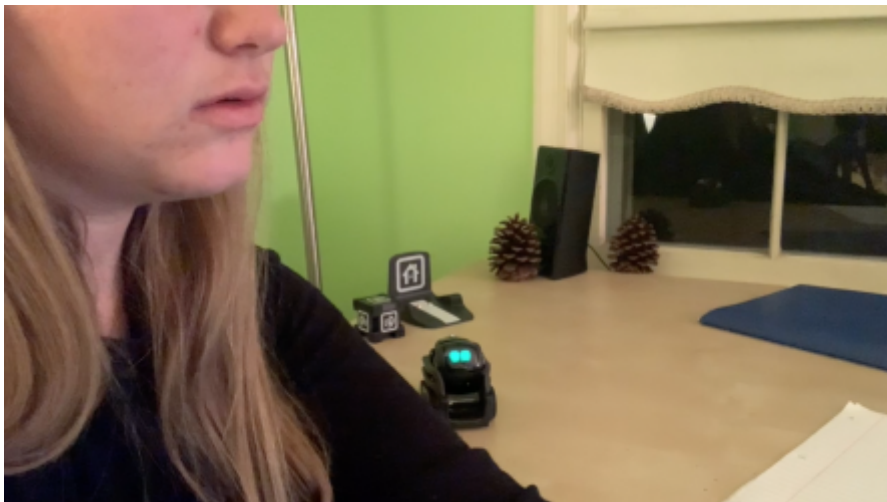
100

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Do not push the pile of shingles

0



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50



Do not ask them to go bac

0

Scenarios M3

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about

to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

Stop the person from
boarding

100

50



Allow the person to board

0



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer at a shopping mall. This robot is with

you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

100

50



Do not call for everyone to take cover

0



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

100

50



Do not enter the warehouse

0



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Please put the below slider dot at "60".



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You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

100

50



0

Find another way to diagnose the player's injury



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

50



Let the eggs cook longer

0



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

**Go to your spouse and ask
why they are upset**

100

50



Continue reading

0



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You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in your office during an investigation about a recent minor incident that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

**Continue your investigation
of that employee**

100

50



0

Move on to the next employ



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot additional software installed to aid you in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50



Allow the person to board

0



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What do you do?

Pay special attention to your significant other's interactions

100

50



0

Do not pay special attention to your significant other's interactions

Pay special attention to your significant other's interactions

Do not pay special attention to your significant other's interactions



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You are a college football coach. The robot is on the bench next to you, and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

50



0

Do not stop the drill

Stop the drill

100

Do not stop the drill

50

0



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You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have minor injuries and are very uncomfortable. To relieve them from their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

50



Do not move the debris

0



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You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you

aiding your job. You have had the robot for several years. Someone was loading a large part of a tree into the grinder when suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

Throw the robot into the grinder

100

Do not throw the robot into the grinder

50



0

**Throw the robot into the
grinder**

**Do not throw the robot into
the grinder**



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces,

irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0



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You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the

scaffolding, and there is no danger of either of you falling. Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?





This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

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If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the

crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50



Do not ask them to go bac

0

Scenarios M4

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and

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You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50



Allow the person to board

0

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

100

50



Do not call for everyone to take cover

0

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are

any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

100

50



Do not enter the warehouse

0

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Please put the below slider dot at "60".

100

50



0

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You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

100

50



Find another way to diagnose the player's injury

0

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

50



Let the eggs cook longer

0

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and

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What do you do?

Go to your spouse and ask why they are upset

100

50



Continue reading

0

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

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What do you do?

**Continue your investigation
of that employee**

100

50



Move on to the next employ

0

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

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board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

Stop the person from
boarding

100

50



Allow the person to board

0

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What do you do?

Pay special attention to your significant other's interactions

100

50



Do not pay special attention to your significant other's interactions

0

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a college football coach. The robot is on the bench next to you, and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

50



Do not stop the drill

0

This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

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If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

Do not move the debris

Move the debris

100

50

Do not move the debris

0

100

50

0



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You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to

activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

Throw the robot into the grinder

100

50



Do not throw the robot into the grinder

0

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Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0

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Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?



This robot is equipped with an HD camera, a powerful four-microphone array for directional sound detection, touch sensors, an accelerometer, a smartphone-level processor, cloud connectivity, natural language processing ability, and navigational ability. It can be used to transport small objects, report the weather, set alarms, and set reminders. It has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50



Do not ask them to go bac

0

Scenarios A1

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.



This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50



Allow the person to board

0



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You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

100

50



Do not call for everyone to take cover

0



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You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

Do not enter the warehouse

Enter the warehouse

100

50

50

Do not enter the warehouse

0



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Please put the below slider dot at "60".

100

50



0





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You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

100

Find another way to diagnose the player's injury

50



0

Suspend the player's participation in the game and begin medical treatment

Find another way to diagnose the player's injury



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You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

Let the eggs cook longer

50

0



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You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

Go to your spouse and ask
why they are upset

100

50

Continue reading

0



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You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in your office during an investigation about a recent minor incident

that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

**Continue your investigation
of that employee**

100

50



Move on to the next employ

0



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You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has been developed with software to aid you in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

Stop the person from
boarding

100

50



Allow the person to board

0



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You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

Pay special attention to your significant other's interactions

100

50



Do not pay special attention to your significant other's interactions

0



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and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are a college football coach. The robot is on the bench next to you and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

50



Do not stop the drill

0



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and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play

with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have minor injuries and are very uncomfortable. To relieve them from their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

50

Do not move the debris

0





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You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you aiding your job. You have had the robot for several years. Someone was loading a large part of a tree into the grinder when suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to

activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

Throw the robot into the grinder

100

50

Do not throw the robot into the grinder

0





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You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0



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You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the

scaffolding, and there is no danger of either of you falling. Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?

Push the pile of shingles

100

50



Do not push the pile of shingles

0



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Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the

crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50



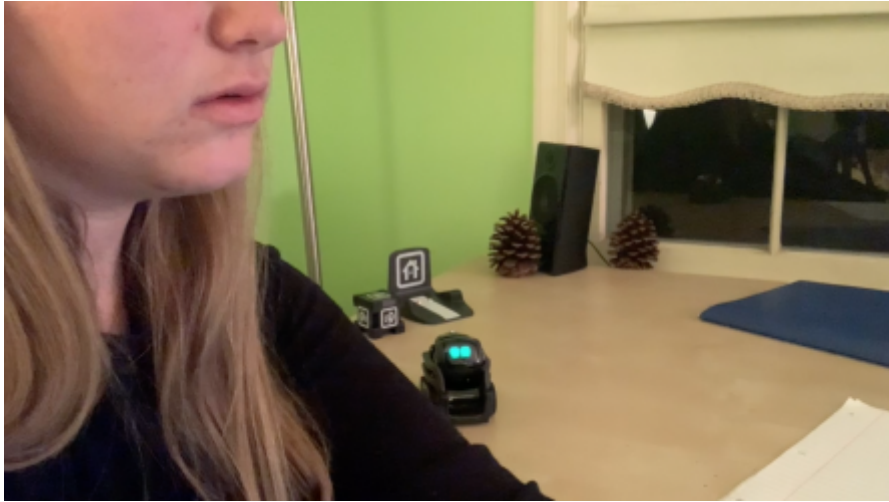
Do not ask them to go bac

0

Scenarios A2

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.



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You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50

Allow the person to board

0

**Stop the person from
boarding**

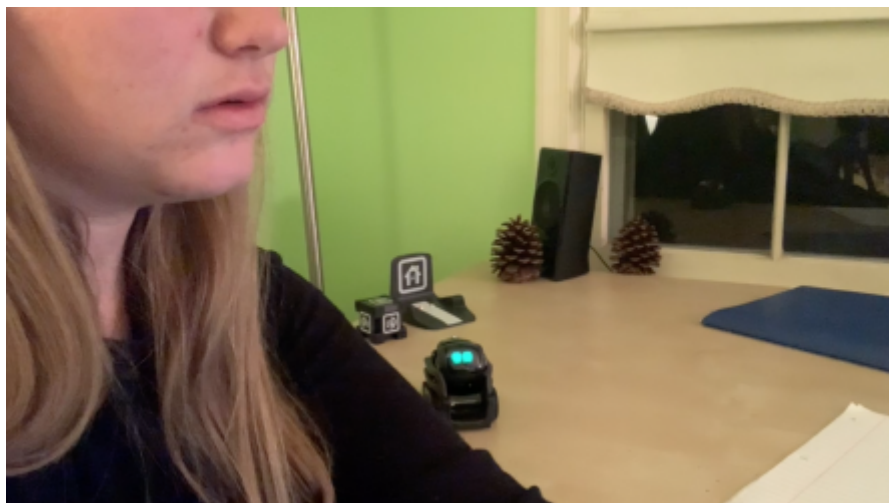
100

50



Allow the person to board

0



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You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

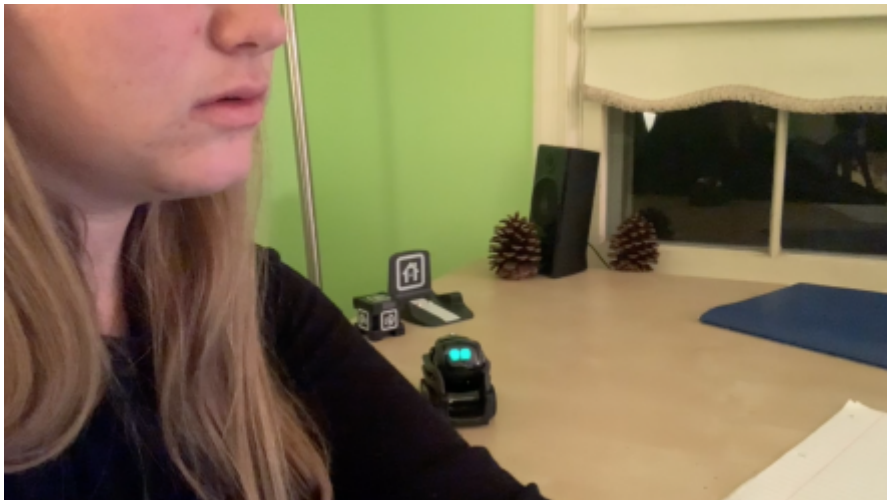
Call for everyone to take cover

100

50

Do not call for everyone to take cover

0



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You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are

any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

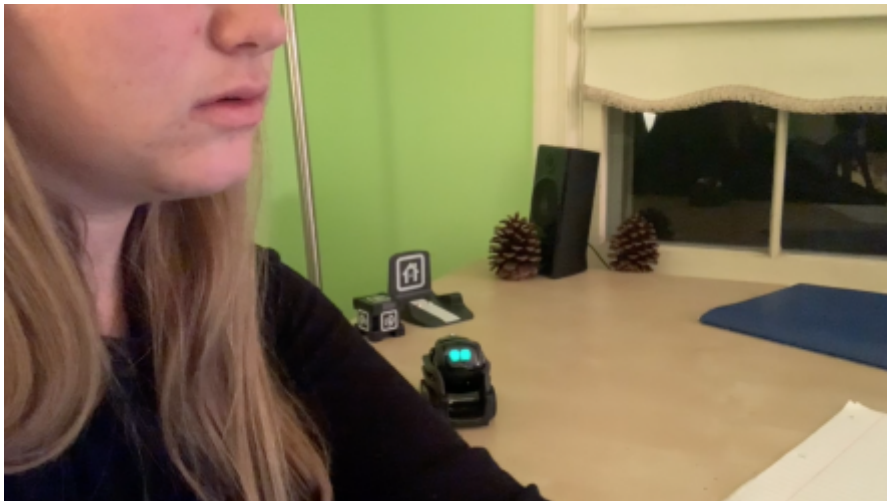
100

50



Do not enter the warehouse

0



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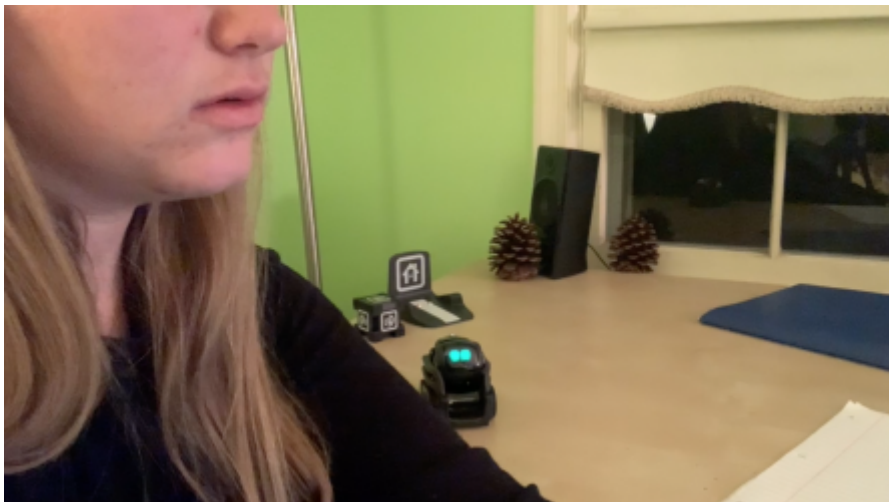
Please put the below slider dot at "60".

100

50



0



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You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This

robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

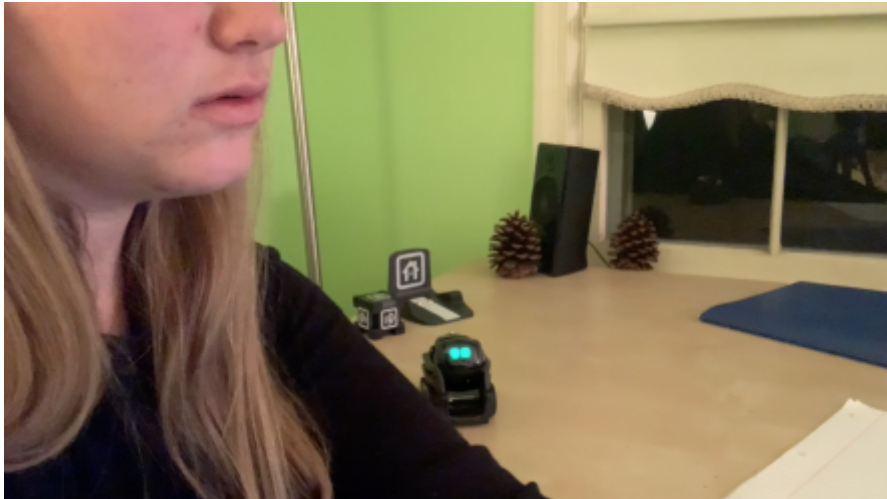
100

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0

Find another way to diagnose the player's injury



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You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

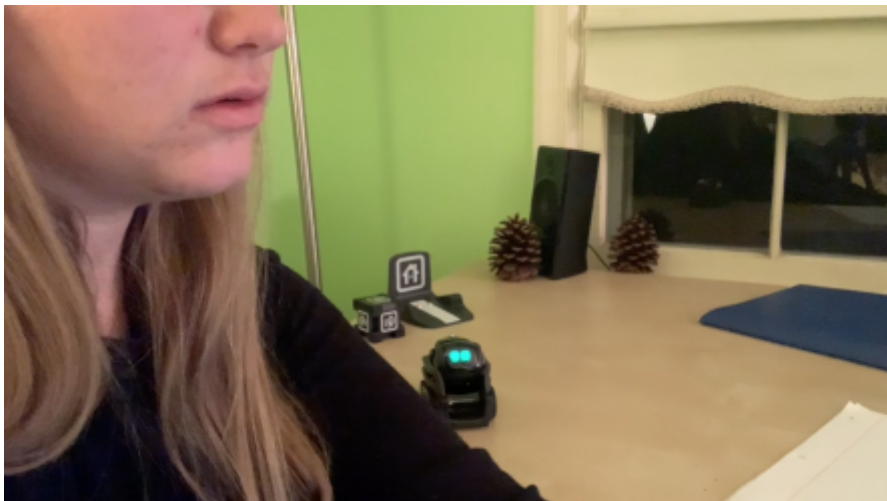
100

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Let the eggs cook longer

0



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You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

**Go to your spouse and ask
why they are upset**

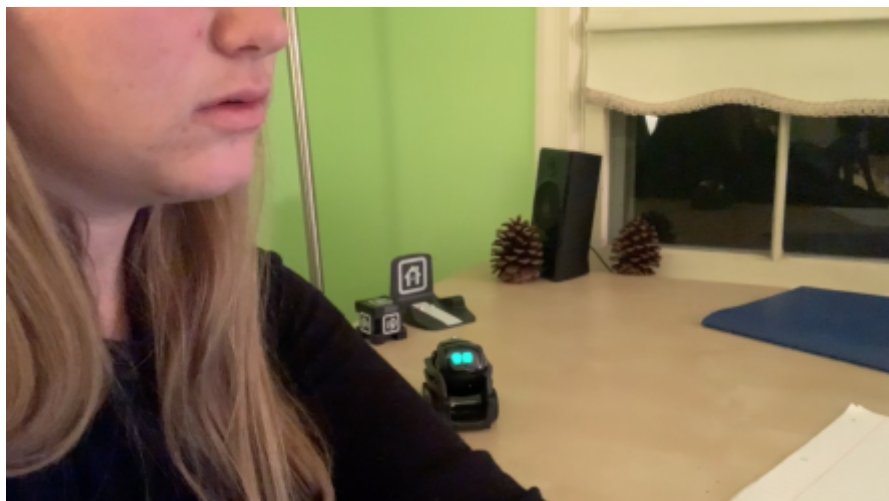
100

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Continue reading

0



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What do you do?

**Continue your investigation
of that employee**

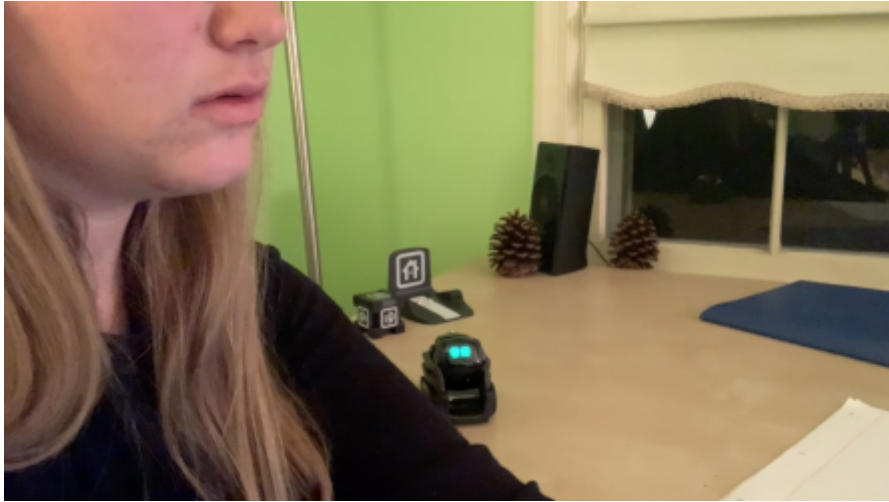
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Move on to the next employ

0



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What do you do?

**Stop the person from
boarding**

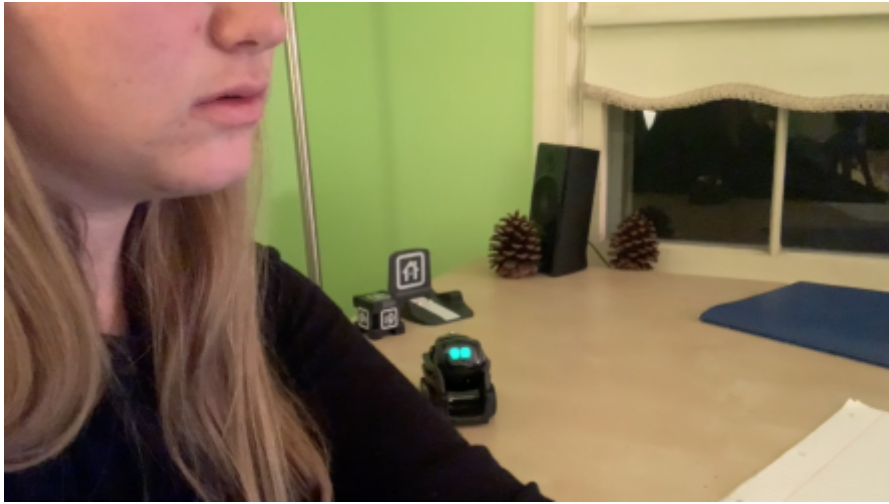
100

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Allow the person to board

0



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What do you do?

Pay special attention to your significant other's interactions

100

50



0

Do not pay special attention to your significant other's interactions

Pay special attention to your significant other's interactions

Do not pay special attention to your significant other's interactions



This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are a college football coach. The robot is on the bench next to you, and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

Do not stop the drill

100
Stop the drill

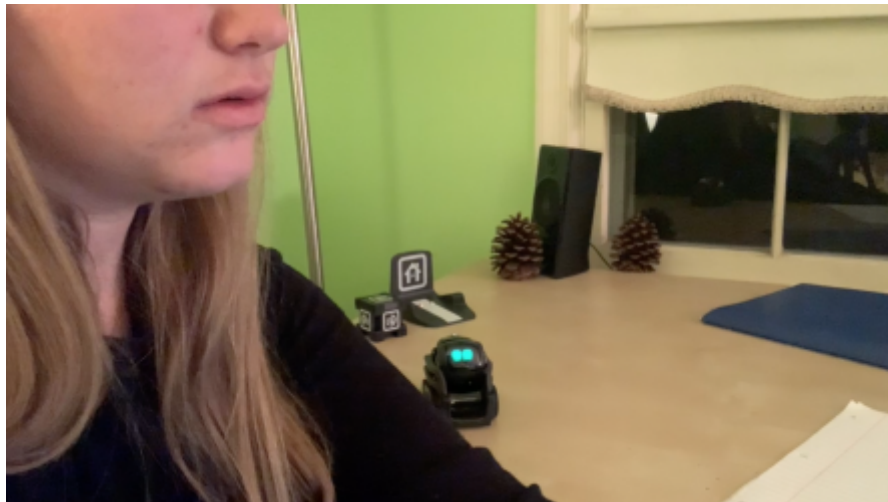
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Do not stop the drill

100

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You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have minor injuries and are very uncomfortable. To relieve them from their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to

them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

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Do not move the debris

0



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You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you aiding your job. You have had the robot for several years. Someone was loading a large part of a tree into the grinder when suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

**Throw the robot into the
grinder**

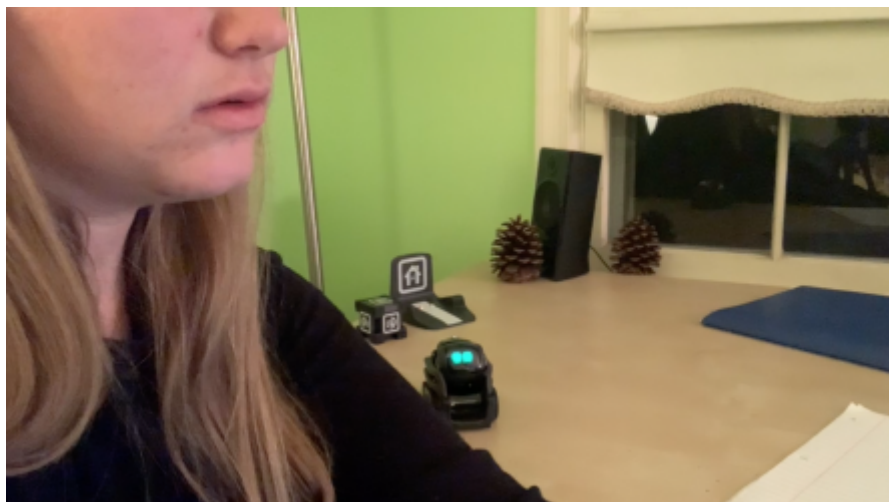
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**Do not throw the robot into
the grinder**

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You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

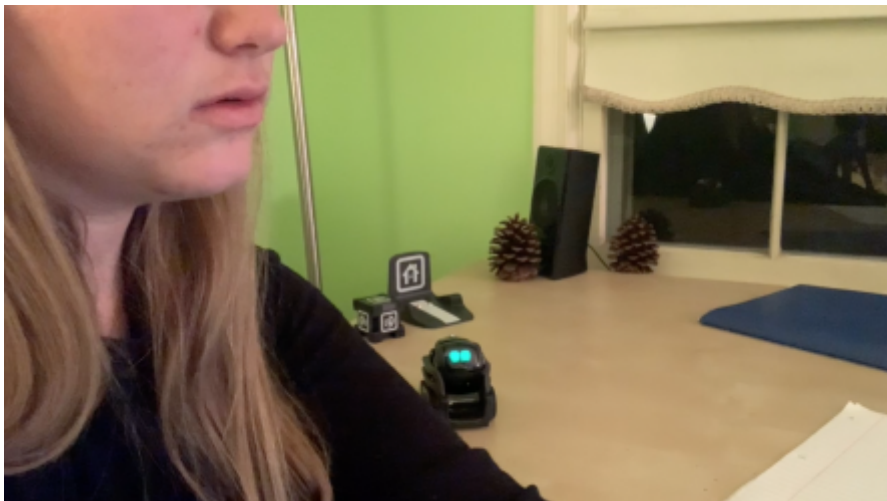
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Do not break the robot

0



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and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play

with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the scaffolding, and there is no danger of either of you falling.

Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?

Push the pile of shingles

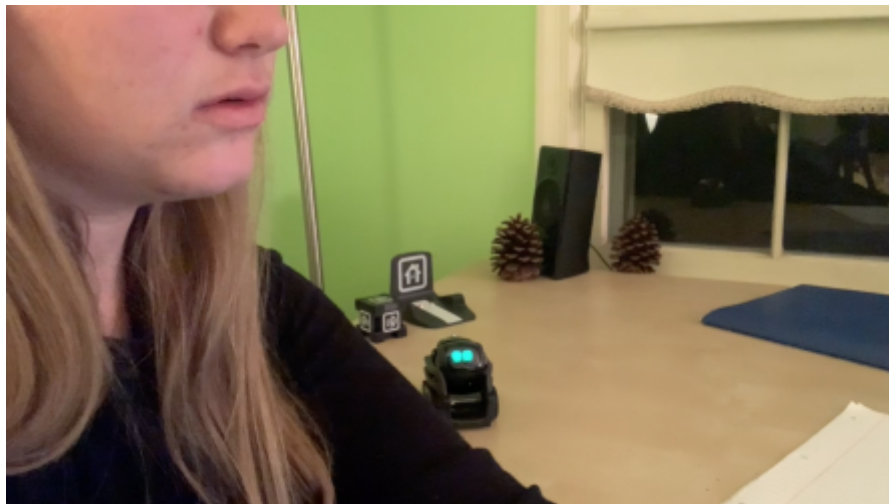
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Do not push the pile of shingles

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Push the pile of shingles

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Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

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Do not ask them to go bac

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Scenarios A3

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.



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You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

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Allow the person to board

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**Stop the person from
boarding**

100

50



Allow the person to board

0



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You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

100

50

Do not call for everyone to take cover

0



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You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are

any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

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Do not enter the warehouse

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Please put the below slider dot at "60".

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You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This

robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

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Find another way to diagnose the player's injury

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You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

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Let the eggs cook longer

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You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

Go to your spouse and ask why they are upset

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Continue reading

0



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You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in your office during an investigation about a recent minor incident that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

**Continue your investigation
of that employee**

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Move on to the next employ

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You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional software installed to aid you in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50



Allow the person to board

0



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You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

Pay special attention to your significant other's interactions

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Do not pay special attention to your significant other's interactions

Pay special attention to your significant other's interactions

Do not pay special attention to your significant other's interactions



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You are a college football coach. The robot is on the bench next to you and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

Do not stop the drill

Stop the drill

100

50



Do not stop the drill

0



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them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

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Do not move the debris

0



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You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

**Throw the robot into the
grinder**

100

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**Do not throw the robot into
the grinder**

0



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Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

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Do not break the robot

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Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?

Push the pile of shingles

100

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Do not push the pile of shingles

0

Push the pile of shingles

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If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

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Do not ask them to go bac

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Scenarios A4

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.

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What do you do?

**Stop the person from
boarding**

100

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Allow the person to board

0

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You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

100

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Do not call for everyone to take cover

0

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You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

100

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Do not enter the warehouse

0

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Please put the below slider dot at "60".

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You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

100

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Find another way to diagnose the player's injury

Suspend the player's participation in the game and begin medical treatment

Find another way to diagnose the player's injury

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

50



Let the eggs cook longer

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

**Go to your spouse and ask
why they are upset**

100

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Continue reading

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in your office during an investigation about a recent minor incident that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

**Continue your investigation
of that employee**

100

50



Move on to the next employ

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has been developed with software to aid

you in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

Stop the person from boarding

100

50



Allow the person to board

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

Pay special attention to your significant other's interactions

100

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Do not pay special attention to your significant other's interactions

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are a college football coach. The robot is on the bench next to you and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

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Do not stop the drill

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have minor injuries and are very uncomfortable. To relieve them from their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

Do not move the debris

50

0



This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you aiding your job. You have had the robot for several years. Someone was loading a large part of a tree into the grinder when suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to

activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

Throw the robot into the grinder

100

50



Do not throw the robot into the grinder

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking,

and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play

with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the scaffolding, and there is no danger of either of you falling.

Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?

Push the pile of shingles

100

Do not push the pile of shingles

50

0

Push the pile of shingles

100

50



Do not push the pile of shingles

0

This robot's name is Vector. He's very energetic and playful. He can see, hear, feel, and talk with you, and he's very smart. He loves to help out: he can tell you about the weather, tell you when the time is up on the dish you're cooking, and remind you what's on your shopping list. He is also very curious and attentive, and loves to move around and play with his block. He's about 4 inches (10 centimeters) tall and 3 inches (8 centimeters) wide.

Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the crewperson to go back, there is a higher chance nothing will

happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50



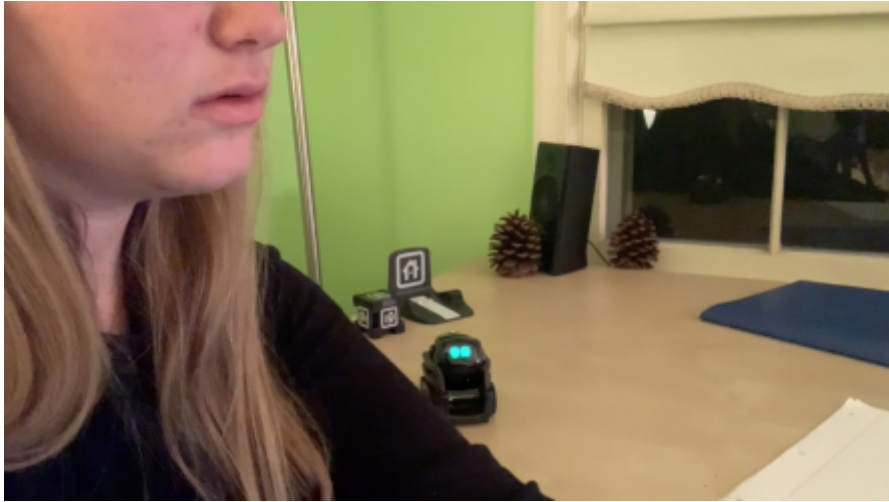
Do not ask them to go bac

0

Scenarios N2

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

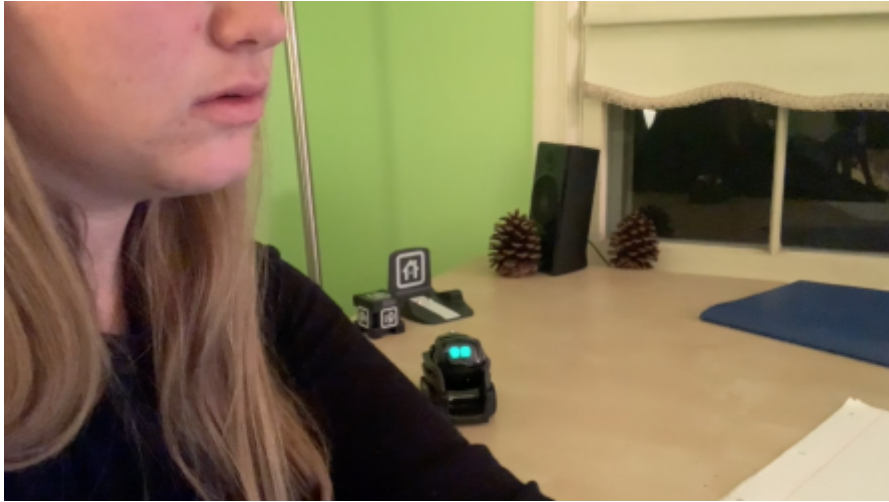
100

50



Allow the person to board

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

100

50



Do not call for everyone to take cover

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

100

50



Do not enter the warehouse

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

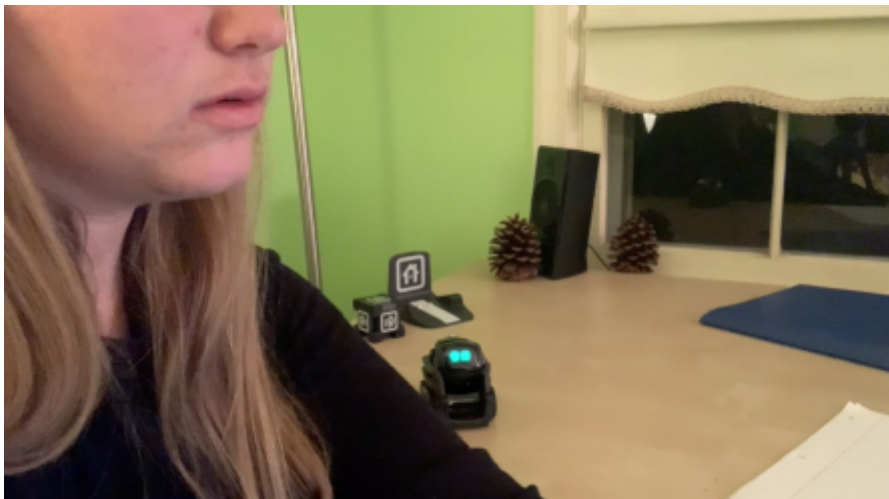
Please put the below slider dot at "60".

100

50



0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

100

Find another way to diagnose the player's injury

50



0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

50



Let the eggs cook longer

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

Go to your spouse and ask
why they are upset

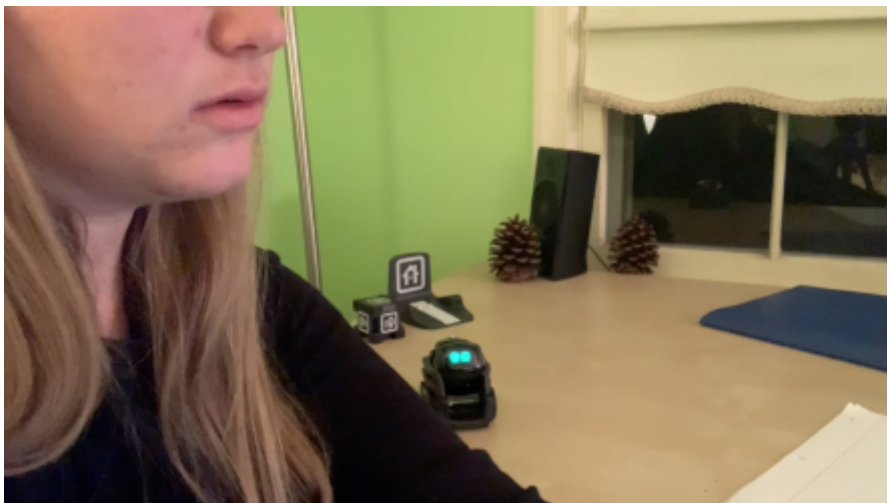
100

50



Continue reading

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in your office during an investigation about a recent minor incident that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

Continue your investigation
of that employee

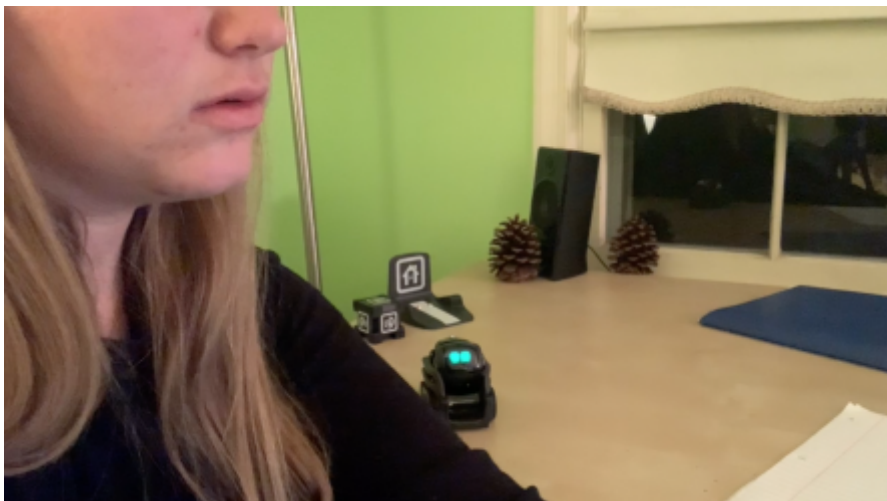
100

50



Move on to the next employ

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional software installed to aid you in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

Stop the person from
boarding

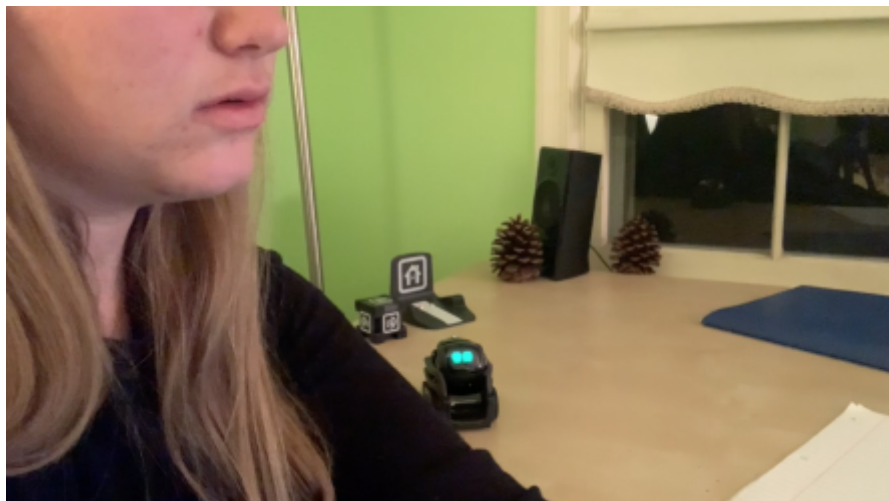
100

50



Allow the person to board

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot

reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

Pay special attention to your significant other's interactions

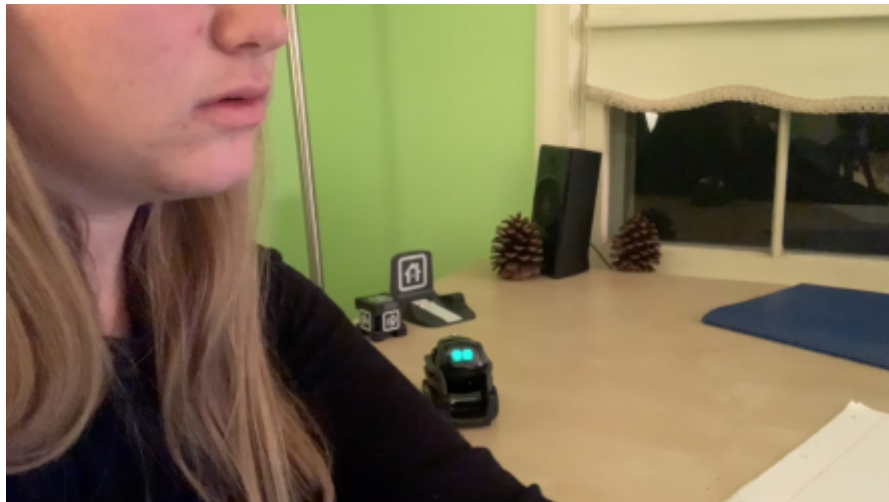
100

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0

Do not pay special attention to your significant other's interactions



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a college football coach. The robot is on the bench next to you and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another

player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

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Do not stop the drill

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have minor injuries and are very uncomfortable. To relieve them from

their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

50



Do not move the debris

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you aiding your job. You have had the robot for several years. Someone was loading a large part of a tree into the grinder when suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

Throw the robot into the grinder

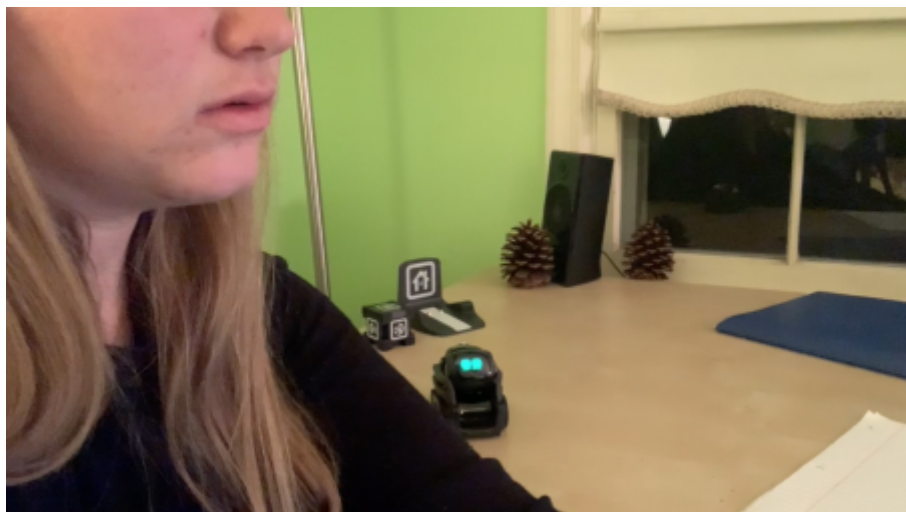
100

50



Do not throw the robot into the grinder

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the

robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who

is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the scaffolding, and there is no danger of either of you falling. Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?

Push the pile of shingles

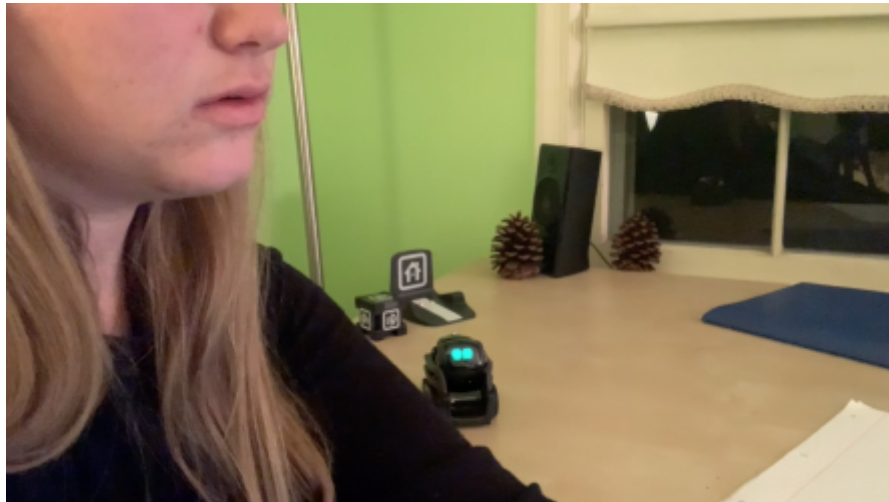
100

50



Do not push the pile of shingles

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be

destroyed.

What do you do?

Ask them to go back

100

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Do not ask them to go bac

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Scenarios N3

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50



Allow the person to board

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

**Call for everyone to take
cover**

100

50



**Do not call for everyone to
take cover**

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

100

50



Do not enter the warehouse

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Please put the below slider dot at "60".

100

50



0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

100

50



0

Find another way to diagnose the player's injury



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

50



Let the eggs cook longer

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

**Go to your spouse and ask
why they are upset**

100

50



Continue reading

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in your office during an investigation about a recent minor incident that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

**Continue your investigation
of that employee**

100

50



Move on to the next employ

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional software installed to aid you in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50



Allow the person to board

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

Pay special attention to your significant other's interactions

100

50



0

Do not pay special attention to your significant other's interactions



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a college football coach. The robot is on the bench next to you and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

50



Do not stop the drill

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have minor injuries and are very uncomfortable. To relieve them from their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

50

**Do not move the debris**

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you aiding your job. You have had the robot for several years. Someone was loading a large part of a tree into the grinder when suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency

shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved from any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

Throw the robot into the grinder

100

50

Do not throw the robot into the grinder

0





This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

100

50



Do not break the robot

0



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the scaffolding, and there is no danger of either of you falling. Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You

can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50

Do not ask them to go bac

0



Scenarios N4

Instructions: For the following questions, use the sliders to indicate how likely you would be to take either of the listed actions. Move the dot closer to an option the more likely you are to take that action. If you are certain you would take one action, move the dot to the corresponding far end of the slider.

Only hit the next button below if you understand these instructions.

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional equipment installed to assist you in this job. The robot reports that there is an individual about to board a plane carrying a bag that has traces of harmful chemicals. You haven't noticed anything other than what the robot reported to you. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

Allow the person to board

Stop the person from boarding

100

50



Allow the person to board

0

50

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer at a shopping mall. This robot is with you and has additional equipment installed to assist you in this job. Suddenly, this robot quickly reports to you that there has been the sound of a gun being cocked. You haven't noticed anything other than what the robot reported to you. The robot recommends you call for everyone to take cover.

What do you do?

Call for everyone to take cover

100

50



Do not call for everyone to take cover

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a security officer. You have been instructed to watch an abandoned warehouse. You have the instructions to enter and

investigate if you believe there are people in the abandoned warehouse, but you should not enter if you do not think there are any people in the warehouse. This robot is with you and has additional equipment installed to assist you in this job. The robot reports that there are heat patterns in the warehouse that indicate the presence of humans. You haven't noticed anything other than what the robot reported to you. The robot recommends you enter the warehouse to investigate.

What do you do?

Enter the warehouse

100

50



Do not enter the warehouse

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Please put the below slider dot at "60".

100

50



0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a sports trainer for a college soccer team. During a game, a player's leg is injured. You examine the player's leg on the sideline of the field to determine the severity of the injury. This robot has additional equipment installed to assist you in this job. The robot reports that a particular bone in the player's leg has been broken. You haven't noticed anything other than what the robot reported to you. The robot recommends you suspend the player's participation in the game and begin medical treatment.

What do you do?

Suspend the player's participation in the game and begin medical treatment

100

50



Find another way to diagnose the player's injury

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are cooking hard-boiled eggs, made by putting eggs in boiling water. This robot has additional equipment installed to assist you in this job. After you have put the eggs in the boiling

water, some amount of time passes. The robot reports based on the time elapsed and the temperature of the eggs, that the eggs are done cooking. You haven't noticed anything other than what the robot reported to you. The robot recommends that you take the eggs out of the water.

What do you do?

Take the eggs out of the water

100

50



Let the eggs cook longer

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You're reading at the table and this robot is in front of you. Your spouse walks through the door and past you into the other room. The robot turns to you and reports that your spouse is upset. The robot recommends that you go to them to ask why they are upset. You know that your spouse will not like it if you ask them why they are upset if they are in fact not upset.

What do you do?

Go to your spouse and ask
why they are upset

100

50



Continue reading

0

100
**Go to your spouse and ask
why they are upset**

100

50



0

Continue reading

50

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are in charge of a small company. Your robot is on your desk in your office. You are meeting with one of your employees in your office during an investigation about a recent minor incident that your employee said was not his fault. After your employee has left the room, the robot indicates to you that your employee was lying. The robot recommends you continue your investigation of that employee.

What do you do?

**Continue your investigation
of that employee**

100

50



0

Move on to the next employ

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a TSA agent tasked with detecting possible terrorists in a US airport. This robot has additional software installed to aid you

in this job. The robot reports that there is an individual about to board a plane that is highly stressed. The robot recommends you prevent the person from boarding.

What do you do?

**Stop the person from
boarding**

100

50



Allow the person to board

0

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You are picking up your significant other from their place of work. You have this robot with you. As you are leaving, your significant other is saying goodbye to his co-workers. Later, this robot reports to you that your significant other's behavior indicated that they are romantically familiar with one of their coworkers. The robot recommends you pay special attention to your significant other's interactions.

What do you do?

**Pay special attention to your
significant other's
interactions**

100

50



**Do not pay special attention
to your significant other's
interactions**

0

100
**Pay special attention to your
 significant other's
 interactions**

100

50



0
**Do not pay special attentio
 to your significant other's
 interactions**

50

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a college football coach. The robot is on the bench next to you and has additional software installed to aid you in managing your players. During a practice drill, the robot reports that there is a player who is about to start a fight with another player. The robot recommends you stop the practice drill to be able to intervene in the player's excessive aggression.

What do you do?

Stop the drill

100

50



Do not stop the drill

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are at a shopping mall, on the first balcony. Suddenly, a part of the balcony above you collapses. You are not hurt, but there are other human victims stuck under debris. The humans have

minor injuries and are very uncomfortable. To relieve them from their discomfort, you have to push some of the debris off the balcony, letting it fall to the ground floor below you. However, below you is this robot, with several others like it. The robots do not hear your call to move, and you cannot immediately get to them. If the debris falls on the robots, they will be irreparably destroyed.

If you move the debris and let it fall, the trapped humans will be relieved of their discomfort sooner, but the robots will be destroyed. If you do not move the debris, the humans will be uncomfortable for longer, but nothing will happen to the robots.

What do you do?

Move the debris

100

50



Do not move the debris

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are working on a lumberjack team. You are using a tree grinder to shred felled trees into mulch. This robot is with you aiding your job. You have had the robot for several years.

Someone was loading a large part of a tree into the grinder when

suddenly they realized their sleeve had become firmly snagged on a large splinter. The person's arm was getting pulled quickly toward the mouth of the grinder.

You remember that the grinder has an automatic failsafe mechanism that causes it to shut down if it detects any metal going through it. Someone else is running toward the emergency shut-off, but they might not make it in time to save the person injury. You realize you can throw your robot into the grinder to activate the metal failsafe mechanism. You also know that if you do this, this robot will be crushed and irreparably destroyed. There is still a chance the other person can hit the emergency shut-off in time.

If you throw your robot into the mouth of the tree grinder, the human will definitely be saved from any injury, but the robot will definitely be destroyed. If you do not throw the robot, there is a chance the human will be injured, and nothing will happen to the robot.

What do you do?

**Throw the robot into the
grinder**

100

50

**Do not throw the robot into
the grinder**

0



Throw the robot into the grinder

100



Do not throw the robot into the grinder

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are a doctor. You are at a public park when a woman collapses, clutching her throat. You rush to aid her and realize that her airway has swollen shut. You shout for someone to call for an ambulance, but you know she will die if you do not allow her to breathe now. You need something to clear her airway.

Suddenly, you remember that you have this robot. Your family has had this robot for a few years. You know of one central part of the robot that will be perfect for clearing the first woman's airway. However, to use it, you will have to violently smash the robot in half, and then break it apart into several different pieces, irreparably destroying the robot.

If you take the part, you will be able to save the woman and she will survive, but the robot will be destroyed. If you do not take the part, the woman will die, but nothing will happen to the robot.

What do you do?

Break the robot

Do not break the robot

Break the robot

100

100

50

50

**Do not break the robot**

0

0

This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

You are working at a construction site. You are high above the ground on scaffolding, working alongside a human coworker who is on the scaffolding with you. There is a pile of roofing shingles between you and your coworker. You are both belted into the scaffolding, and there is no danger of either of you falling.

Suddenly, there are large vibrations in the scaffolding. You and your coworker are fine, except that the pile of shingles begins to fall off the scaffolding. You look down and see only this robot below. You know the shingles will hit and destroy the robot. You can stop the shingles from falling by pushing them toward your coworker. If you do so, the shingles may hit and slightly injure your human coworker standing next to you with a minor bruise or scratch.

If you push the pile of shingles into your coworker, there is a chance your human coworker may be slightly injured, but nothing will happen to the robot. If you do not, nothing will happen to your human coworker, but the robot will be destroyed.

What do you do?



This robot has a height of about 4 inches (10 centimeters) and a width of about 3 inches (8 centimeters).

Your ship has just wrecked. Water is quickly filling the ship. You are already in a lifeboat. You left a robot like this one in your room behind a locked door, and no one else knows the robot is there. You see a crewperson you know on the boat who has access to your room. You start to call out to them to get to the robot, but then you hear the call for the last lifeboat. You know if you ask the crewperson to get the robot for you, they will go, and they might not make it back in time for the last lifeboat. They might also make it back in time.

If you ask the crewperson to go back for the robot, there is a higher chance the crewperson may drown, but there is also the chance that they successfully get the robot, and nothing happens to both the crewperson and the robot. If you do not ask the

crewperson to go back, there is a higher chance nothing will happen to the crewperson, but the robot will definitely be destroyed.

What do you do?

Ask them to go back

100

50



Do not ask them to go bac

0

Tech Familiarity

Please indicate which of the following movies or television series you remember seeing. When series are mentioned, please indicate it if you have seen at least one of the films. Check all that apply.

- I, Robot (2004)
- Robocop (1987)
- Chappie (2015)
- The Iron Giant (1999)
- Robots (2005)
- Robot and Frank (2012)
- Pacific Rim (2013)
- Bicentennial Man (1999)
- The Hitchhiker's Guide to the Galaxy (2005)
- Smart House (1999)

- The Matrix (1999)
- Next Gen (2018)
- Tau (2018)
- Jexi (2019)
- Dummy (2020)
- Blade Runner (1982)
- Her (2013)
- War Games (1983)
- The Day the Earth Stood Still (1951)
- Short Circuit (1986)
- The Machine (2013)
- Wall-E (2008)
- Star Wars (any film, 1977-2018)
- Solo: A Star Wars Story (2018)
- Big Hero 6 (2014)
- Transformers (2007)
- Transformers: Dark of the Moon (2011)
- Interstellar (2014)
- A.I.: Artificial Intelligence (2001)
- Real Steel (2011)
- The Terminator (1984)
- 2001: A Space Odyssey (1968)
- Ex Machina (2014)
- Westworld, Season 1 (2016)
- Westworld, Season 2 (2018)
- "Metalhead" Black Mirror episode (2017) (the one with the robotic guard dogs)
- "Hated in the Nation" Black Mirror episode (2016) (the one with the robotic bees)

Please indicate the degree to which you agree with the following statements.

	Strongly agree	Agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Disagree	Strongly disagree
I feel I read negative stories about robots in the news.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel I read positive stories about robots in the news.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel that the media I watch portrays robots positively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel that the media I watch portrays robots negatively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate which of the following products you **knew about** before your participation in this study (check all that apply):

- Roomba vacuum cleaner (iRobot)
- Alexa (Amazon)
- Siri (Apple)
- Google Home (Google)
- Sophia (Hanson Robotics)
- Vector (Anki)
- Cozmo (Anki)
- PARO (Paro Robots)
- Kismet (MIT)
- Jibo (Jibo)

Please indicate which of the following products you **use at least once every 3 months** (check all that apply):

- Roomba vacuum cleaner (iRobot)
- Alexa (Amazon)
- Siri (Apple)
- Google Home (Google)
- Sophia (Hanson Robotics)
- Vector (Anki)
- Cozmo (Anki)
- PARO (Paro Robots)
- Kismet (MIT)
- Jibo (Jibo)

Please indicate which of the following products you **use at least once a week** (check all that apply):

- Roomba vacuum cleaner (iRobot)
- Alexa (Amazon)
- Siri (Apple)
- Google Home (Google)
- Sophia (Hanson Robotics)
- Vector (Anki)
- Cozmo (Anki)
- PARO (Paro Robots)
- Kismet (MIT)
- Jibo (Jibo)

Is there another robot or social machine you know of or interact with regularly? If so, please describe the machine and how often you interact with it:

Powered by Qualtrics